

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**

WEBB ZIESENHEIM LOGSDON ORKIN & HANSON, P.C.  
700 KOPPERS BUILDING  
436 SEVENTH AVENUE

WILLIAM H. LOGSDON  
RUSSELL D. ORKIN  
DAVID C. HANSON  
FREDERICK B. ZIESENHEIM  
RICHARD L. BYRNE  
KENT E. BALDAUF  
BARBARA E. JOHNSON  
PAUL M. REZNICK  
JOHN W. MCILVAINE III  
JULIE W. MEDER  
LESTER N. FORTNEY  
RANDALL A. NOTZEN  
KENT E. BALDAUF, JR.  
KIRK M. MILES  
JAMES G. PORCELLI

RECEIVED

MAY 25 2004

OFFICE OF PETITIONS

PITTSBURGH, PA 15219-1818

TELEPHONE 412-471-8815

FAX 412-471-4094

E-MAIL webblaw@webblaw.com

PATENT, TRADEMARK & COPYRIGHT LAW

MAY 14 2004

FACSIMILE TRANSMITTAL

WILLIAM H. WEBB (1929-1997)

CHRISTIAN E. SCHUSTER  
NATHAN J. PREPELKA  
JESSICA M. SCHROTH  
J. MATTHEW PRITCHARD IV  
DARRELL E. WILLIAMS  
PHILIP J. FORET  
PATRICIA A. OLOSKEY  
ALEXANDER DETSCHELT  
GWENDOLYN R. ACKER WOOD

PATENT AGENTS  
GARY F. MATZ  
JAMES J. BOSCO, JR.

OF COUNSEL  
DONALD C. LEPIANE

Page 1 of 16

May 25, 2004

**VIA FACSIMILE NO.: 703-872-9408**

Ms. Nancy Johnson  
United States Patent and Trademark Office  
P.O. Box 1450  
Alexandria, VA 22313-1450

Re: Reissue Application No. 10/712,917 of Patent No. 6,314,717  
issued November 13, 2001, Application No. 09/319,478 filed August 18,  
1999, which is from the national phase of PCT Application No.  
PCT/US97/22007 filed December 3, 1997, entitled "An Electricity  
Generating System Having An Annular Combustor"  
Our File: 3419-032151

Dear Ms. Johnson:

In response to your telephone call of Monday, May 24, 2004, please find attached a  
copy of the formal drawings associated with the above-identified reissue patent application.

Please contact me if you would like these drawings submitted in another format or  
in a different manner. Unless I hear from you I will not send a hard copy of this letter or the attached  
drawings to you.

Very truly yours,

*James G. Porcelli*  
James G. Porcelli

JGP:psc  
Attachments

{W0123104.1}

**STATEMENT OF CONFIDENTIALITY**

The information in this facsimile is privileged and confidential and is intended only for the use of the  
named recipient. Disclosure or copying of this document or its contents other than by the named recipient is prohibited. If this  
document is received in error, it should be returned to sender.



(12) **United States Patent**  
**Teets et al.**

(10) Patent No.: US 6,314,717 B1  
(45) Date of Patent: Nov. 13, 2001

- (54) **ELECTRICITY GENERATING SYSTEM  
HAVING AN ANNULAR COMBUSTOR**
- (75) Inventors: J. Michael Teets, Hobe Sound, FL  
(US); Jon W. Teets, Scottsdale, AZ  
(US)
- (73) Assignee: Elliott Energy Systems, Inc., Stuart,  
FL (US)
- (\*) Notice: Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
U.S.C. 154(b) by 0 days.

3,187,188	6/1965	Adkins et al.	
3,247,393	4/1966	Toeson	
3,613,360	10/1971	Howes	60/39.36
4,486,147	12/1984	Byrnes et al.	
4,619,588	10/1986	Moore, III	417/366
5,129,222	7/1992	Lampe et al.	
5,140,807	8/1992	Shekleton et al.	60/39.36
5,180,034	1/1993	Lopes	60/39.08
5,237,817	8/1993	Bornemisz et al.	60/226.1
5,497,615	3/1996	Noe et al.	60/39.511
5,685,156	11/1997	Willis et al.	60/39.511

## FOREIGN PATENT DOCUMENTS

0742634 11/1996 (EP).  
06173714 6/1994 (JP).

\* cited by. examiner

*Primary Examiner*—Charles G. Freay  
*Assistant Examiner*—E. D. Hayes

(57) **ABSTRACT**

An electricity generating system having a body (159), an annular combustor (14), a turbine (16), a compressor chamber and a compressor (102) positioned within the compressor chamber. An inlet port is in fluid communication with the compressor chamber and an exit port is in fluid communication with the turbine. A plurality of magnets (MG) is secured to the rotor (18) and a stator (22) made of magnetically attracted material, such as iron, and having a stator winding provided in the body (159). The stator winding is positioned in close proximity to the plurality of magnets mounted to the rotor whereby rotation of the rotor (18) induces a current in the winding.

**Related U.S. Application Data**

(60) Provisional application No. 60/032,090, filed on Dec. 3, 1996.

(51) Int. Cl.<sup>7</sup> ..... F02C 3/06

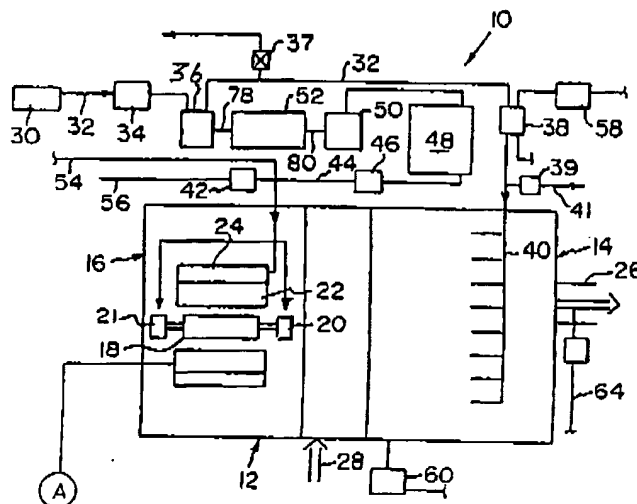
(52) U.S. Cl. .... 60/39.36; 60/39.08; 60/39.281;  
60/39.511; 60/734

(58) Field of Search ..... 60/39.511, 39.08,  
60/39.36, 734, 39.281

(56) **References Cited**  
**U.S. PATENT DOCUMENTS**

Re. 34,962 6/1995 Shickleton et al. 60/39,36

**18 Claims, 15 Drawing Sheets**



U.S. Patent

Nov. 13, 2001

Sheet 1 of 15

US 6,314,717 B1

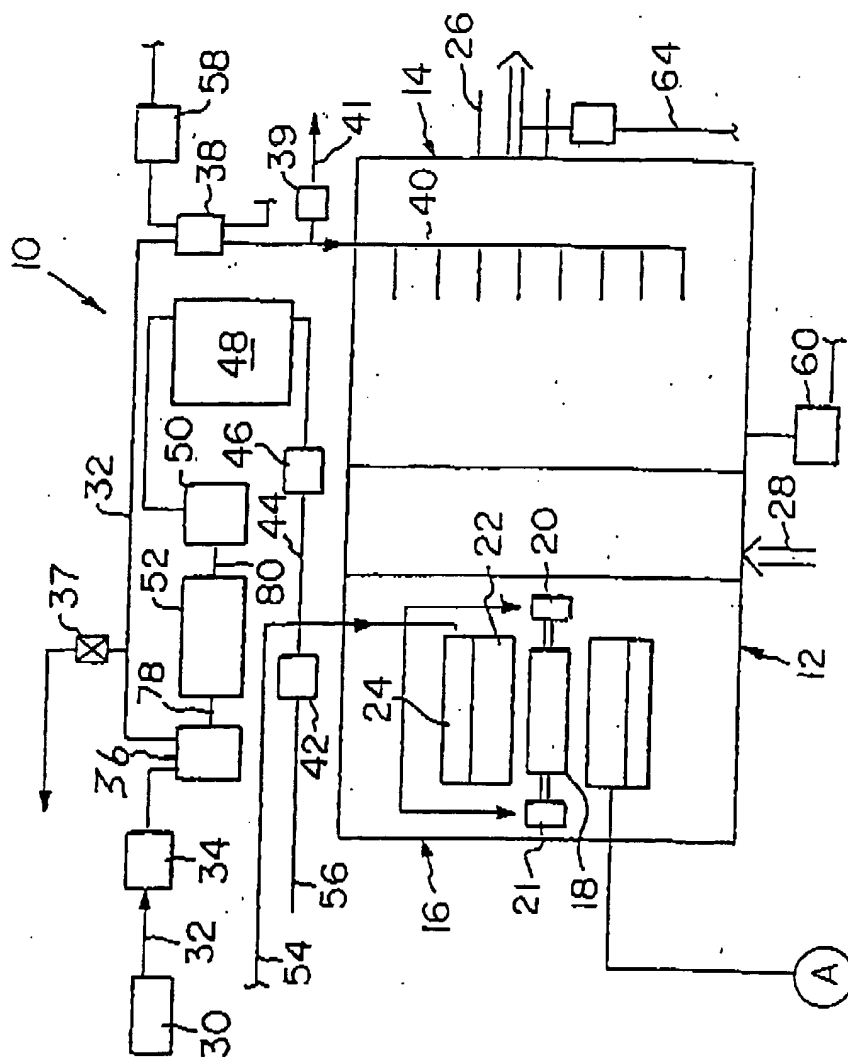


FIG. 1A

U.S. Patent

Nov. 13, 2001

Sheet 2 of 15

US 6,314,717 B1

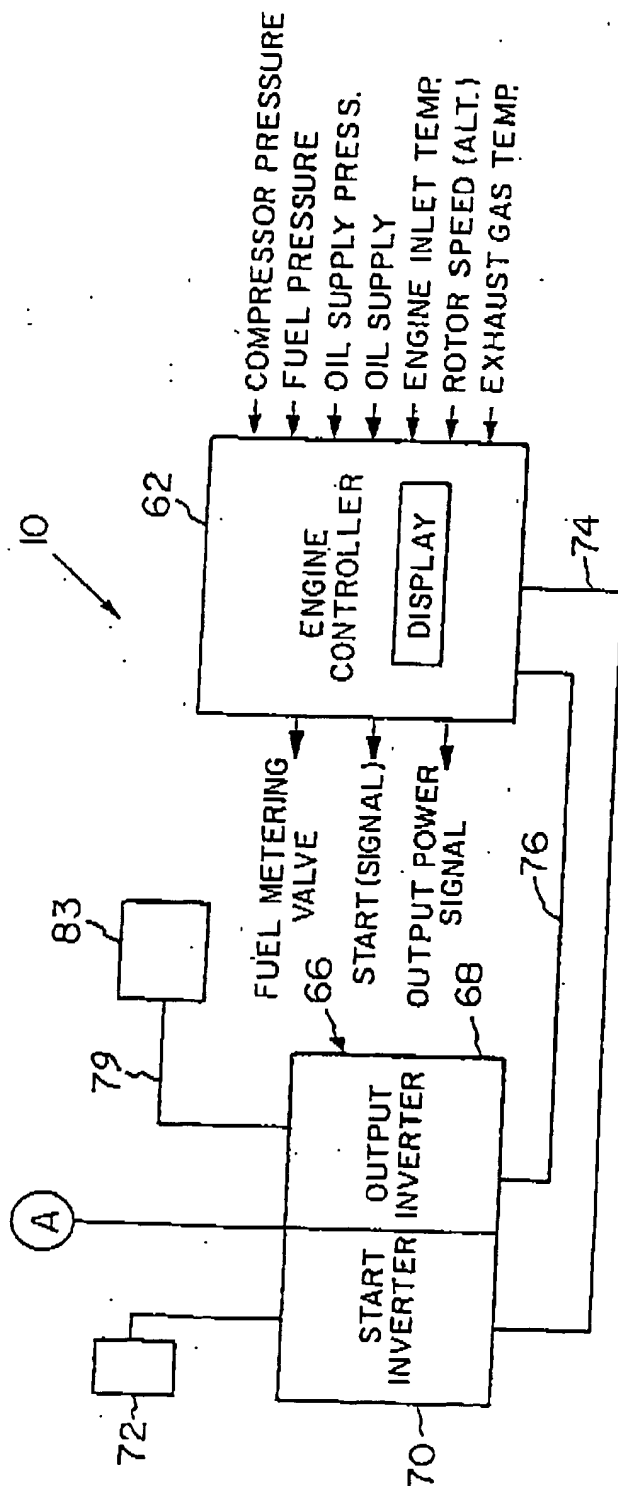


FIG. 1B

**U.S. Patent**

**Nov. 13, 2001**

Sheet 3 of 15

US 6,314,717 B1 .

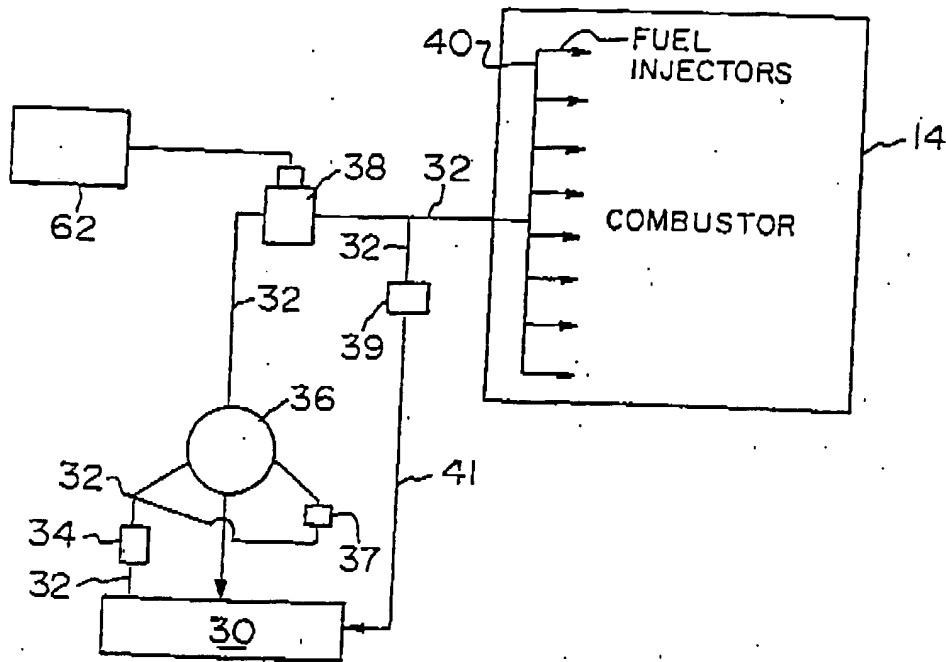


FIG. 2

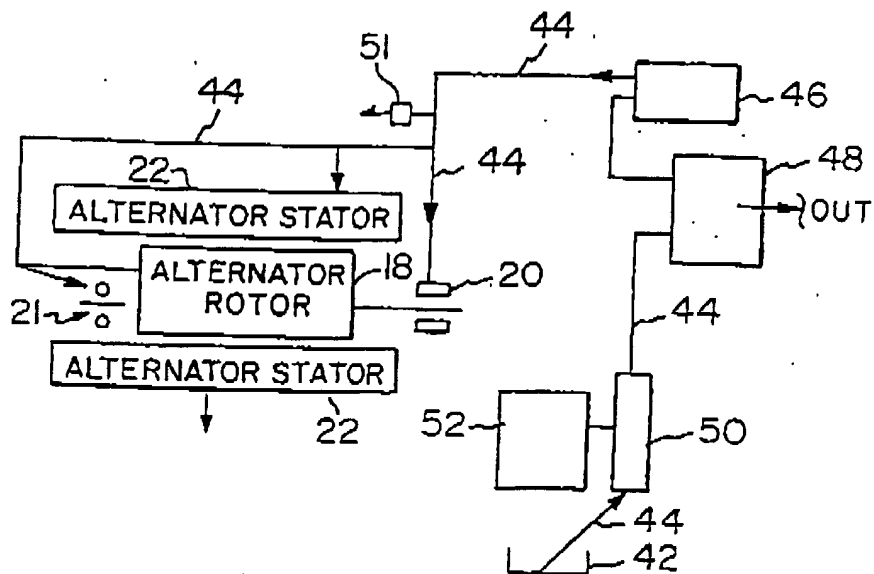


FIG. 3

MAY-25-2004 13:53

THE WEBB LAW FIRM

P.05

U.S. Patent

Nov. 13, 2001

Sheet 4 of 15

US 6,314,717 B1

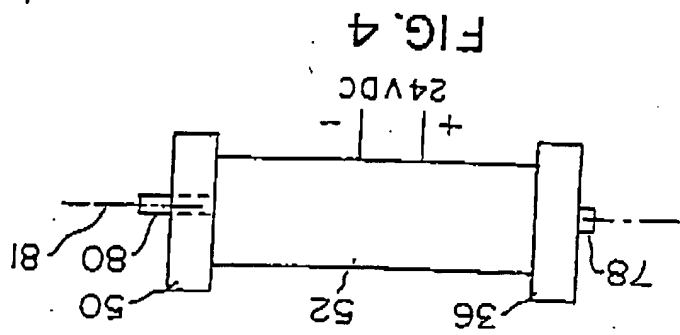


FIG. 4

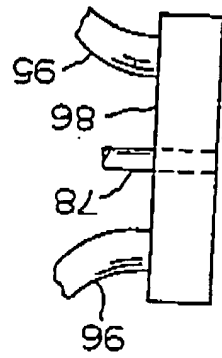


FIG. 6

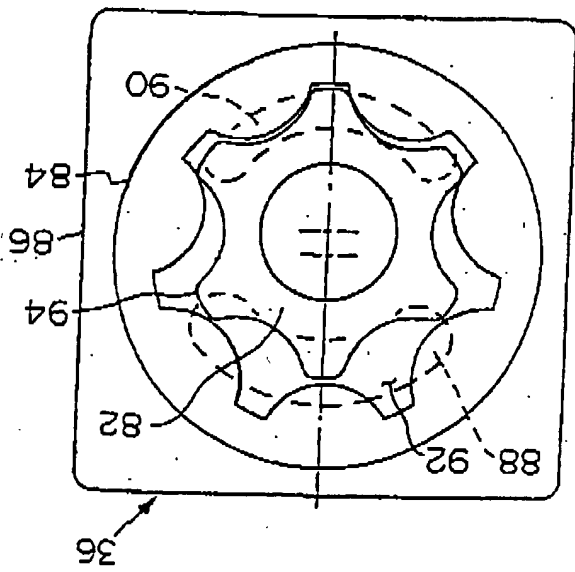


FIG. 5

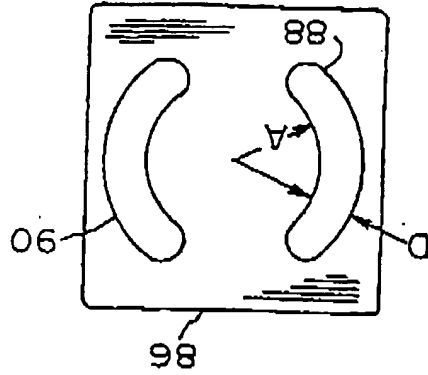


FIG. 7

U.S. Patent

Nov. 13, 2001

Sheet 5 of 15

US 6,314,717 B1

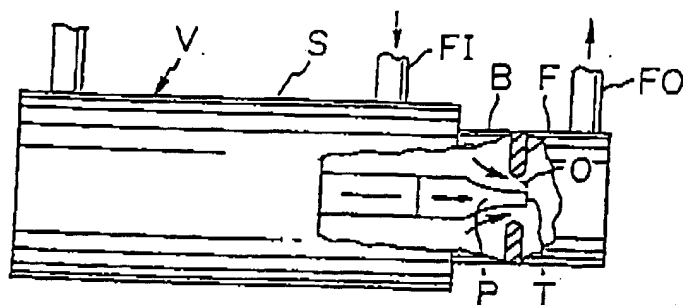


FIG. 8A

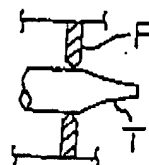


FIG. 8B

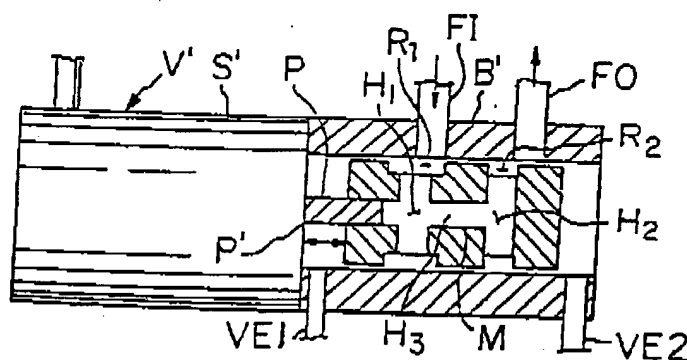


FIG. 9

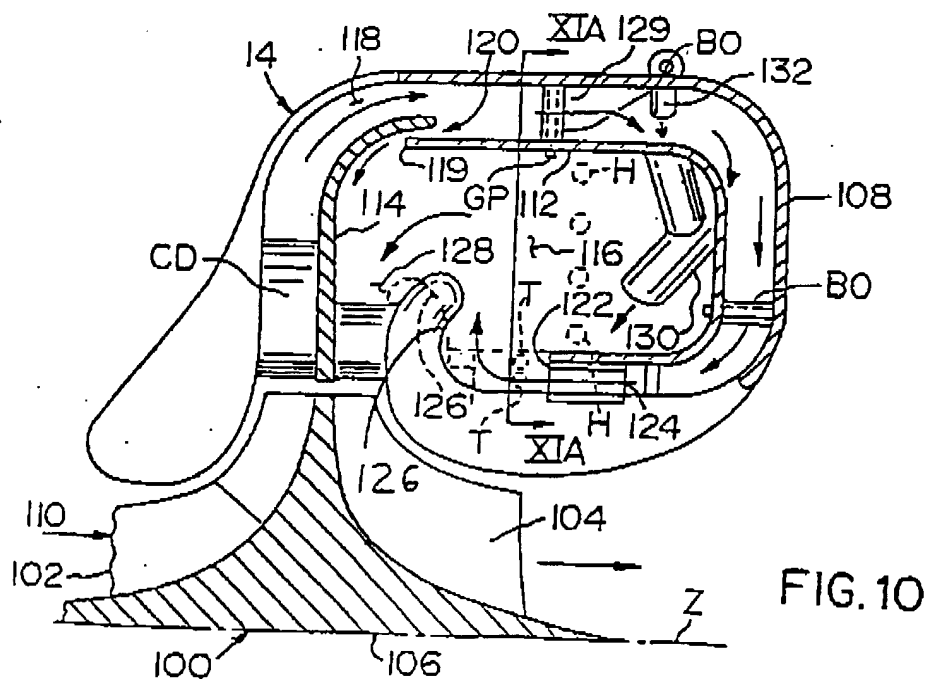


FIG. 10



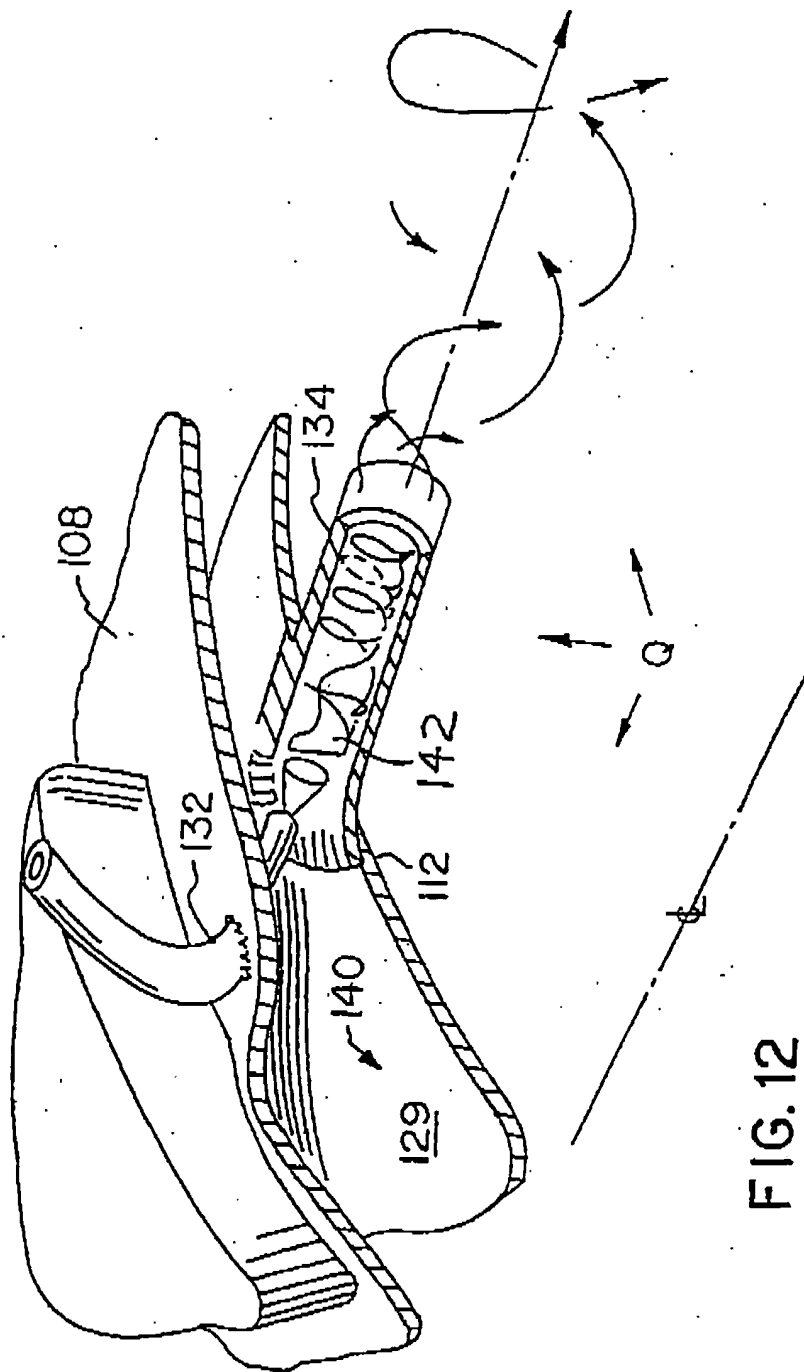


U.S. Patent

Nov. 13, 2001

Sheet 7 of 15

US 6,314,717 B1



U.S. Patent

Nov. 13, 2001

Sheet 8 of 15

US 6,314,717 B1

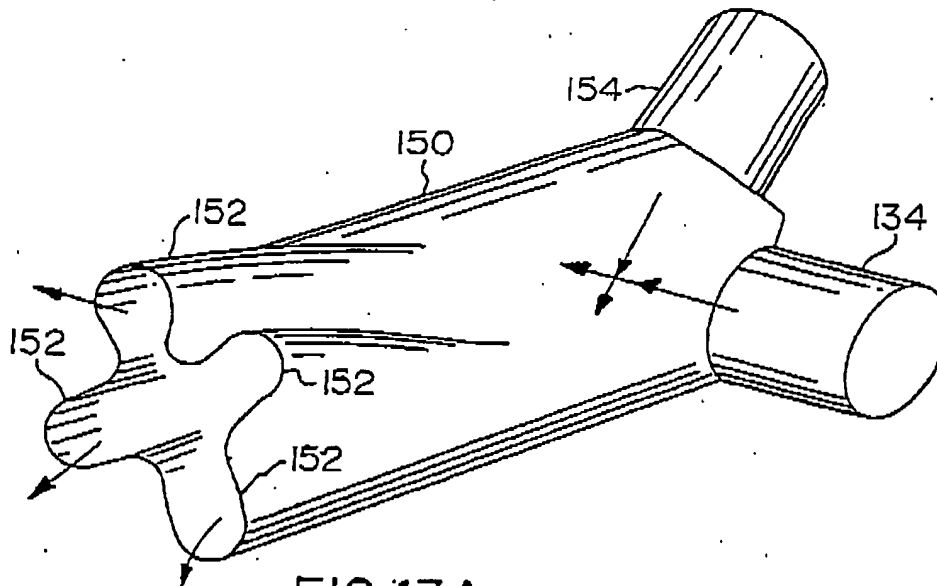


FIG. 13A

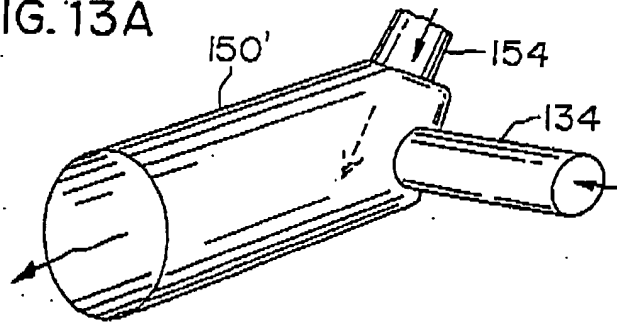


FIG. 13B

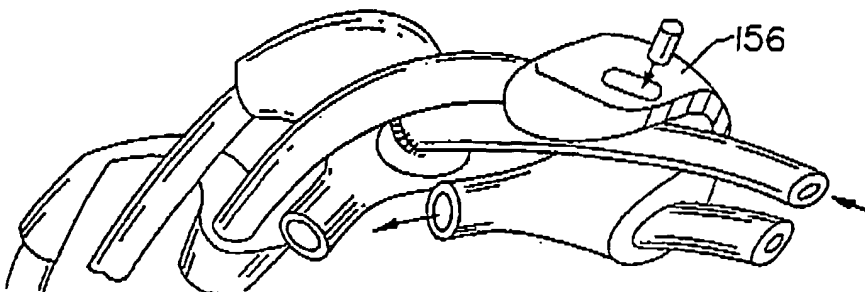


FIG. 13C

U.S. Patent

Nov. 13, 2001

Sheet 9 of 15

US 6,314,717 B1

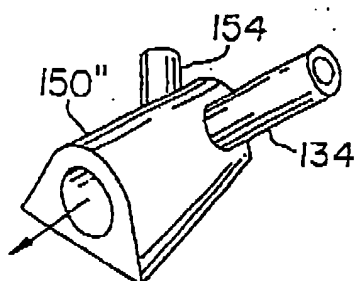


FIG. 13D

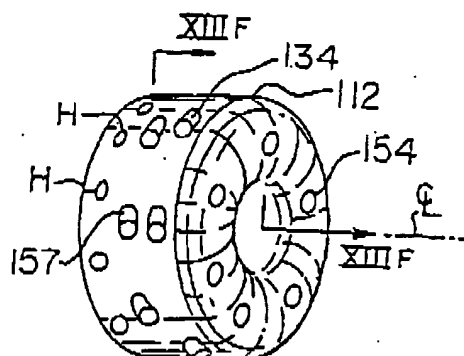


FIG. 13E

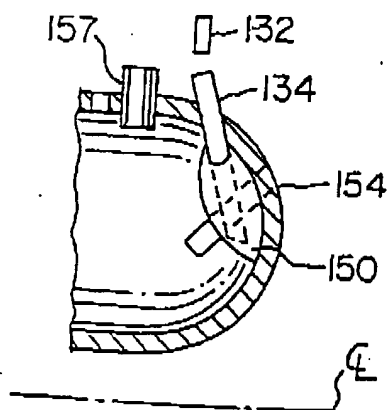


FIG. 13F

U.S. Patent

Nov. 13, 2001

Sheet 10 of 15

US 6,314,717 B1

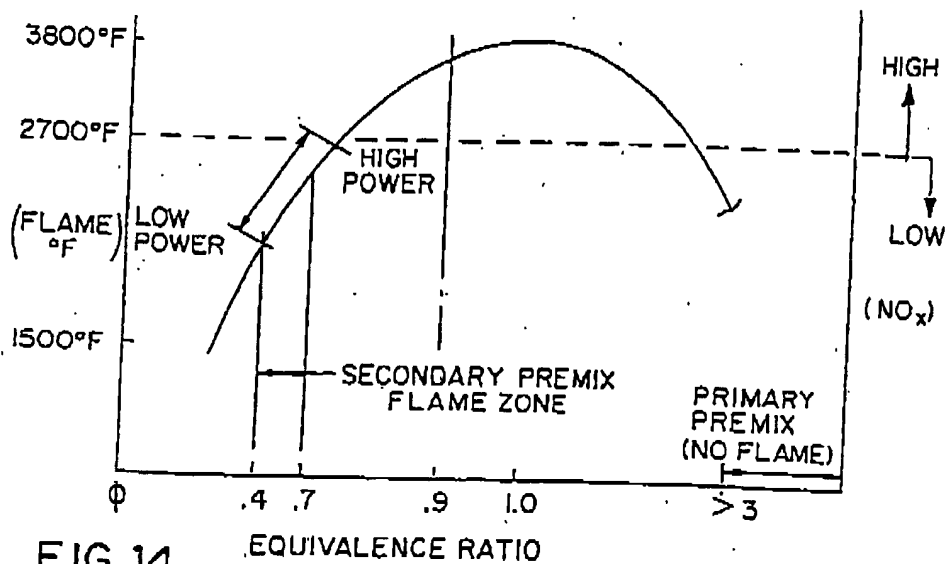


FIG. 14

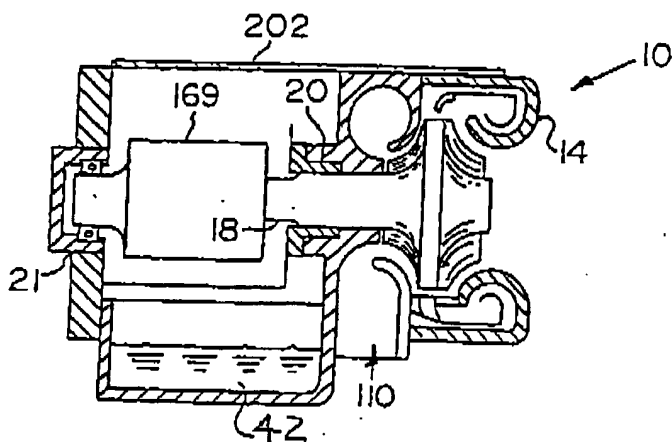


FIG. 15

U.S. Patent

Nov. 13, 2001

Sheet 11 of 15

US 6,314,717 B1

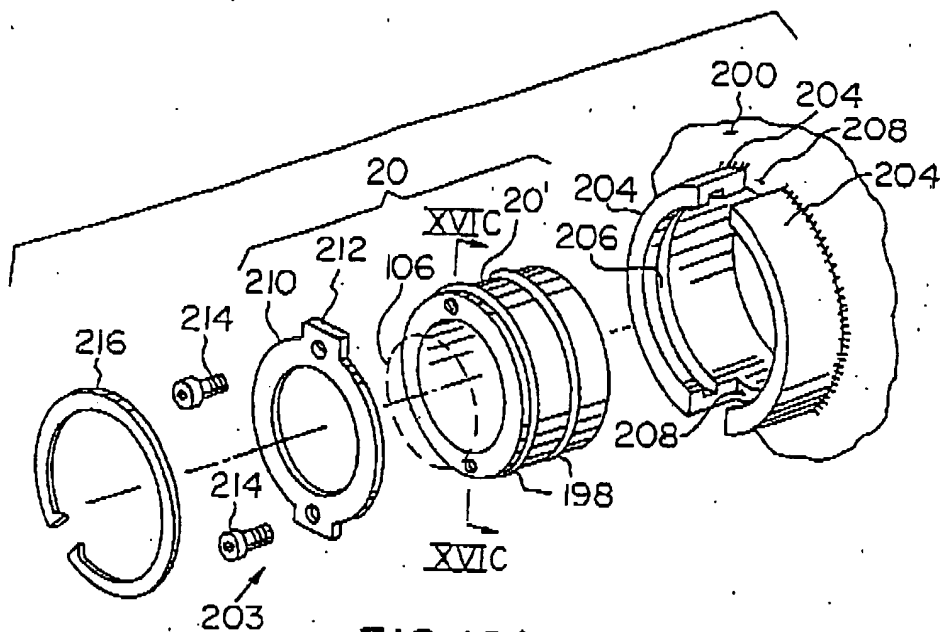


FIG. 16A

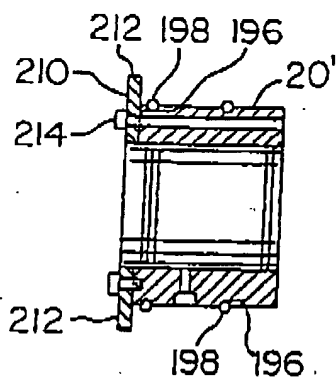


FIG. 16C

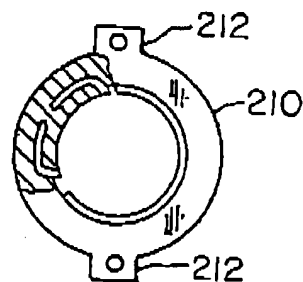


FIG. 16B

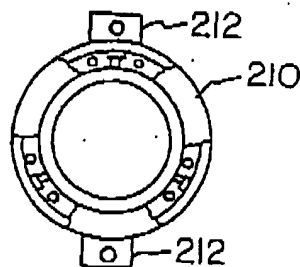


FIG. 16D

U.S. Patent

Nov. 13, 2001

Sheet 12 of 15

US 6,314,717 B1

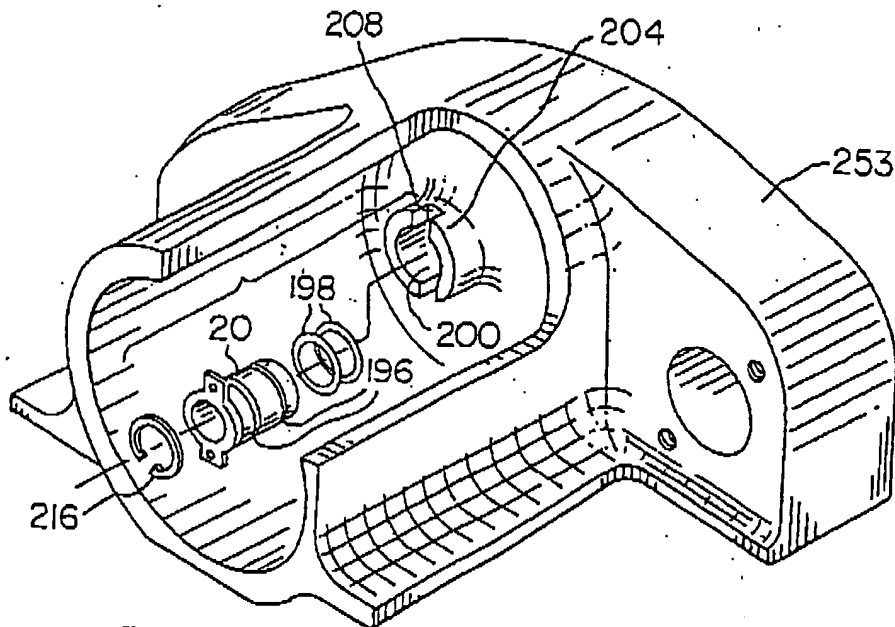


FIG. 17

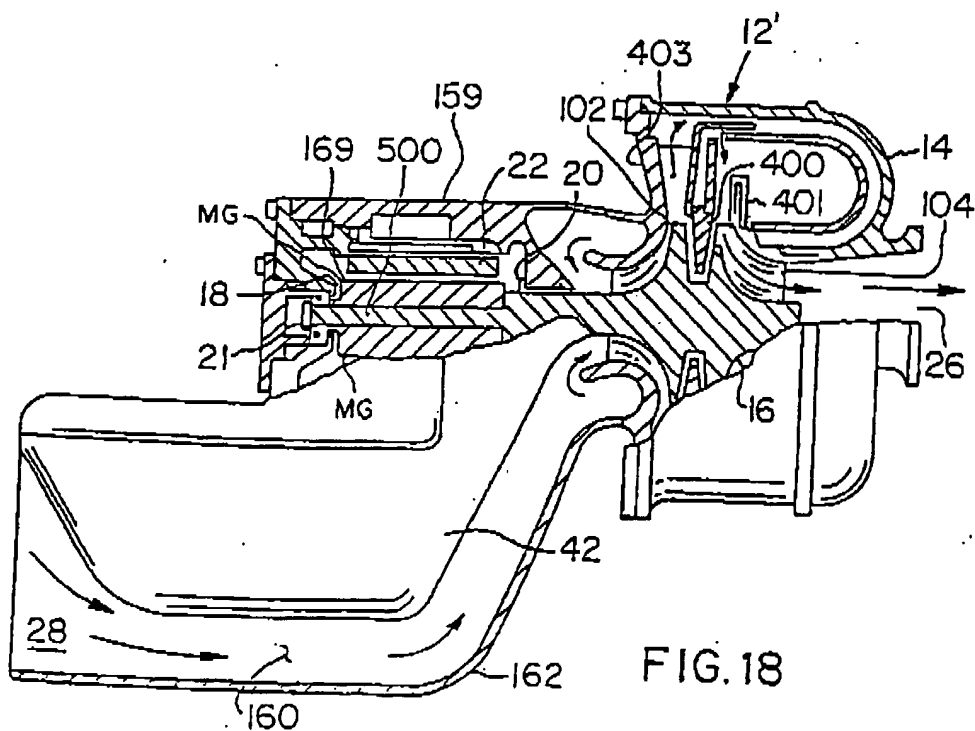


FIG. 18

U.S. Patent

Nov. 13, 2001

Sheet 13 of 15

US 6,314,717 B1

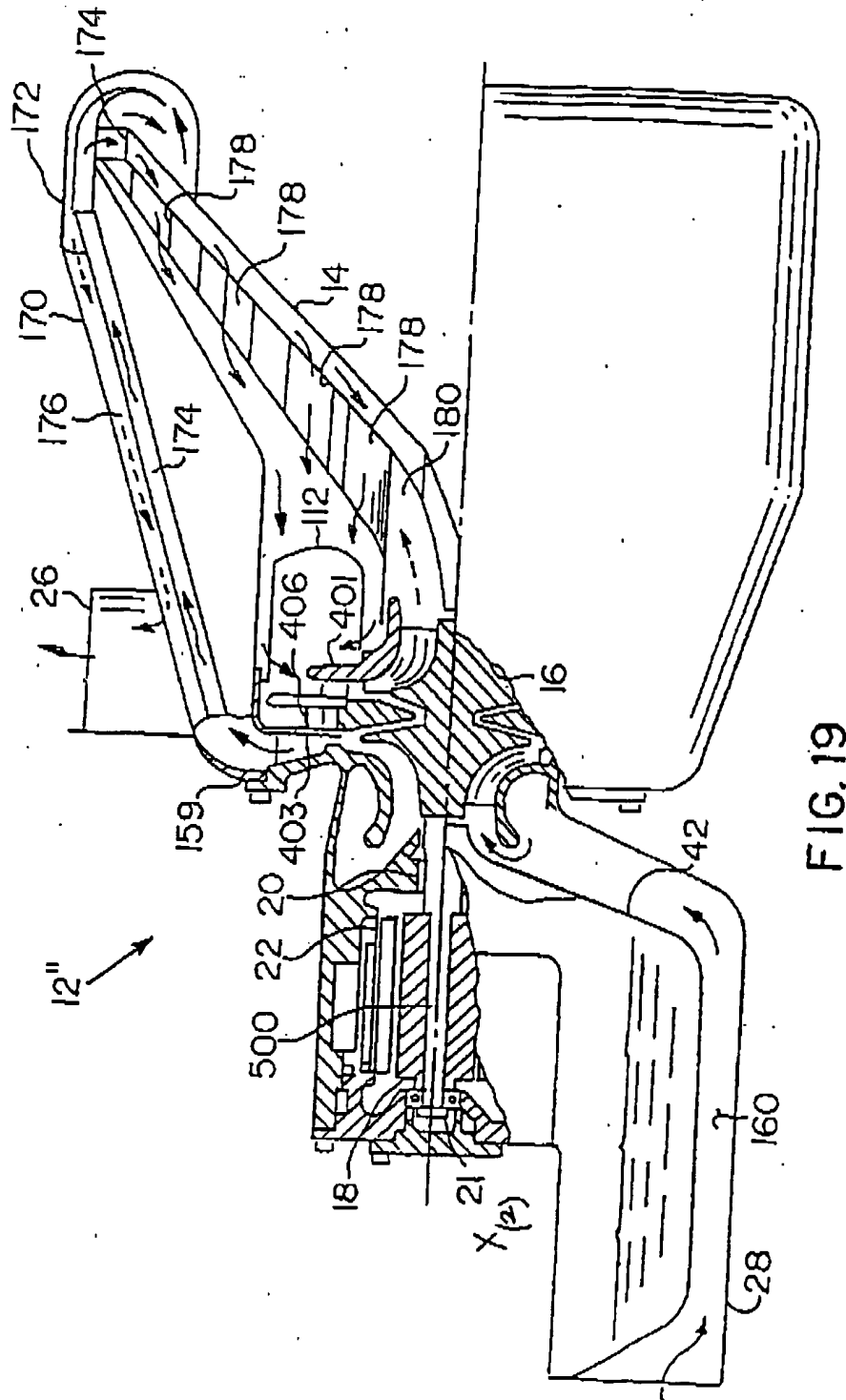


FIG. 19

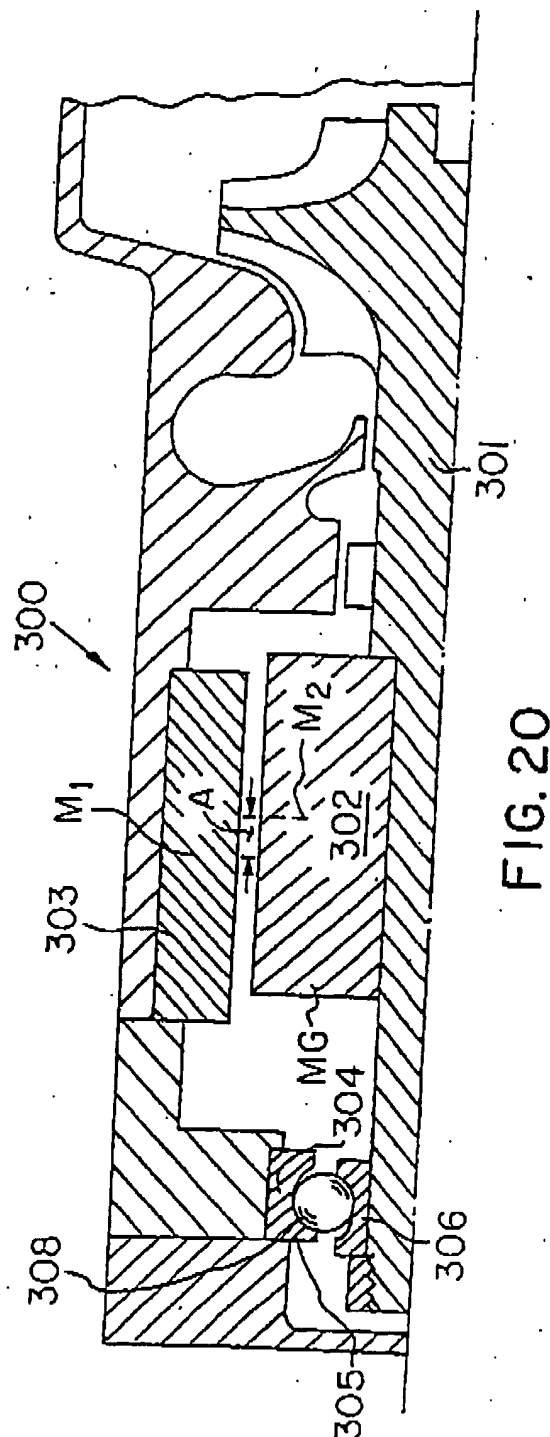


U.S. Patent

Nov. 13, 2001

Sheet 14 of 15

US 6,314,717 B1



U.S. Patent

Nov. 13, 2001

Sheet 15 of 15

US 6,314,717 B1

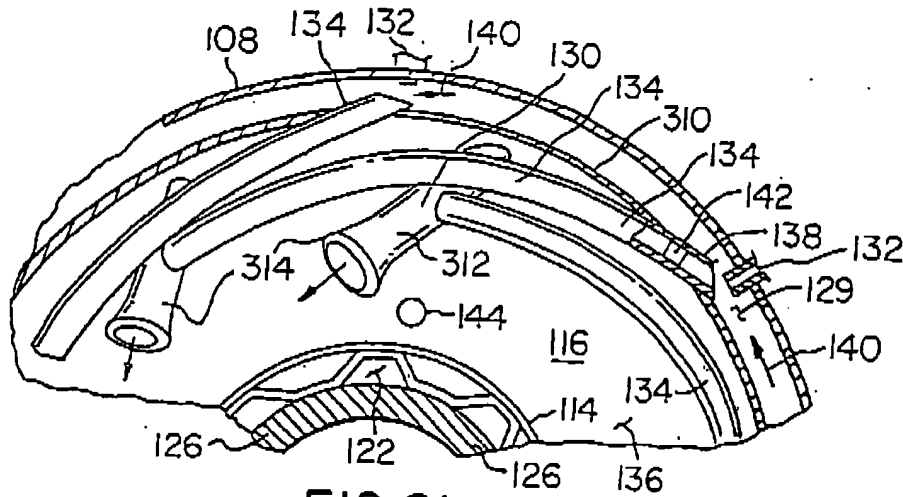


FIG. 21

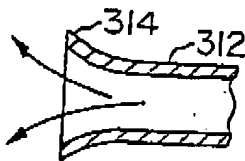


FIG. 22

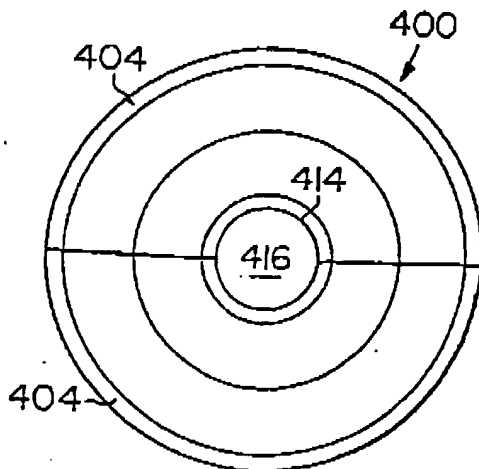


FIG. 24

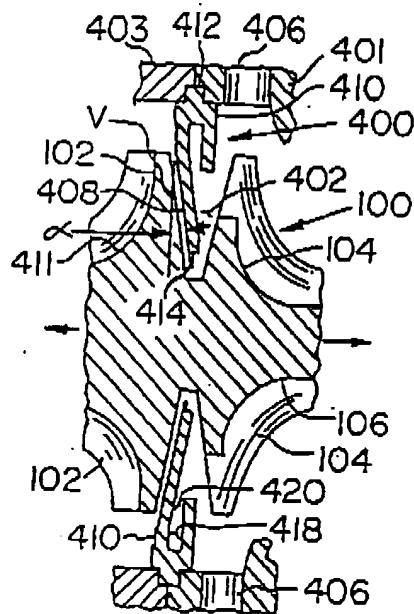


FIG. 23